ARRAY QUESTIONS

1. <https://leetcode.com/problems/majority-element/>

Code:

class Solution {

    public int majorityElement(int[] nums) {

        int count = 0;

        int answer = 0;

        for(int val:nums){

            if(count==0)

                answer = val;

            if(answer == val)

                count++;

            else

                count--;

        }

        return answer;

    }

}

1. <https://leetcode.com/problems/single-number/>

Code:

class Solution {

    public int singleNumber(int[] nums) {

        int ans = 0;

        for(int val:nums)

            ans^=val;

        return ans;

    }

}

1. <https://leetcode.com/problems/gas-station/>

class Solution {

    public int canCompleteCircuit(int[] gas, int[] cost) {

        int n = gas.length;

        int totalGas = 0,totalCost = 0;

        int currGas = 0,start = 0;

        for(int i=0;i<n;i++){

            totalGas +=gas[i];

            totalCost +=cost[i];

            currGas +=gas[i]-cost[i];

            if(currGas<0){

                start = i+1;

                currGas = 0;

            }

        }

        return totalGas<totalCost ? -1:start;

    }

}